DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **DIRECT MEMORY**

claimed and for which a pater	nt is sought on the inver	ntion entitled DIRECT MEMORY	
•			
<u></u>		CODER, the specification of which	
is attached here	eto.		
was filed on	as United States A	pplication No. or PCT International Application	on
Number	and was amended on	(if applicable).	
I hereby state that I ha	ve reviewed and under	stand the contents of the above identified	
specification, including the cl	aims, as amended by ar	y amendment referred to above.	
I acknowledge the dut	y to disclose to the Uni	ted States Patent and Trademark Office all	
information known to me to b	e material to patentabil	ity as defined in 37 CFR Section 1.56 (Append	dix
B, which is incorporated by re	eference and a part of the	is document).	
I hereby claim foreign	priority benefits under	35 USC Section 119(a)-(d) or	
Section 365(b) of any foreign	application(s) for pater	nt or inventor's certificate, or Section	
365(a) of any PCT Internation	nal application which de	esignated at least one country other	
than the United States, listed I	below and have also ide	entified below, by checking the box,	
any foreign application for pa	tent or inventor's certif	icate or PCT International	
application having a filing dat	te before that of the app	lication on which priority is claimed.	
		Priority	
Prior Foreign Applications(s)		Not Claimed	
(Number)	(Country)	(Date/Month/Year Filed)	
(Number)	(Country)	(Date/Month/Year Filed)	

I	hereby claim th	e benefit unde	r 35 USC S	ection 119(e)	of any Unite	ed States p	rovisional
applicati	ion(s) below:						

(Application Serial No.)	(Filing Date)	
(Application Serial No.)	(Filing Date)	

I hereby claim the benefit under 35 USC Section 120 of any United States application(s), or Sections 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 USC Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37 CFR, or PCT International filing date of this application:

(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

PTO Customer Number 28062

Nathaniel Levin (Reg. No. 34,860); Kurt M. Maschoff (Reg. No. 38,235); Patrick J. Buckley (Reg. No. 40,928); Nandu A. Talwalkar (Reg. No. 41,339); and Carson C. K. Fincham (Reg. No. 54,096).

In addition, I hereby appoint the persons listed on Appendix A (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send correspondence to:

PTO Customer Number 28062

Patrick J. Buckley BUCKLEY, MASCHOFF & TALWALKAR LLC 5 Elm St. New Canaan, CT 06840

Direct telephone calls to: Patrick J. Buckley at (203) 972-0191.

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First Inventor's Signature	Date:	
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Third Inventor's Signature	Date:
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SAME AS RESIDENCE	

APPENDIX A

Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Shireen I. Bacon, Reg. No. 40,494; Michael Barre, Reg. No. 44,023; Jay P. Beale, Reg. No. 50,901; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert Chang, Reg. No. 48, 765; George Chen, Reg. No. 50,807; Glen B. Choi, Reg. No. 43,546; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert Diehl, Reg. No. 40,992; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Thomas Faatz, Reg No. 39,973; Christopher Gagne, Reg. No. 36,142; Sharmini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Libby Hope, Reg. No. 46,774; Jeffrey B. Huter, Reg. No. 41,086; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Issac Lin, Reg. No. 50,672; Anthony Martinez, Reg. No. 44,223; Molly McCall, Reg. No. 46,126; Larry Mennemeier, Reg. No. 51,003; Paul Nagy, Reg. No. 37,896; Michael J. Nesheiwat, Reg. No. 47,819; Dennis A. Nicholls, Reg. No. 42,036; Lanny Parker, Reg. No. 44,281; Alan Pedersen-Giles, Reg. No. 39,996; Michael D. Plimier, Reg. No. 43,004; Michael Proksch, Reg. No. 43,021; Kevin A. Reif, Reg. No. 36,381; Crystal D. Sayles, Reg. No. 44,318; Russell Scott, Reg. No. 43,103; Kenneth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; Ami P. Shah, Reg. No. 42,143; David Simon, Reg. No. 32,756; Steven P. Skabrat, Reg. No. 36,279; Paul E. Steiner, Reg. No. 41,326; Joni D. Stutman-Horn, Reg. No. 42,173; David Tran, Reg. No. 50,804; John F. Travis, Reg. No. 43,203; Robert Wawrzyn, Reg. No. 54,654; Calvin E. Wells, Reg. No. 43,256; Stuart Whittington, Reg. No. 45,215; Michael Willardson, Reg. No. 50,856; Robert Winkle, Reg. No. 37,474; Rita Wisor, Reg. No. 41,382; Sharon Wong, Reg. No. 37,760; and Steven D. Yates, Reg. No. 42,242; my patent attorneys, and my patent agents, of INTEL CORPORATION, with offices located at 2200 Mission College Blvd., Santa Clara, CA 95052, telephone (408)765-8080; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

APPENDIX B

Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by \$\$1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
 - (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **DIRECT MEMORY**

ACCESS UNIT	WITH INSTRUCTION PRE-DI	ECODER, the specification of	which i
is	attached hereto.		
☐ w	as filed on as United States	Application No. or PCT Interna	tional Application
Ni	umber and was amended on	(if applicable).	
I hereby s	state that I have reviewed and under	rstand the contents of the above	identified
specification, inc	cluding the claims, as amended by a	any amendment referred to above	e.
I acknow	ledge the duty to disclose to the Un	nited States Patent and Tradema	rk Office all
information know	wn to me to be material to patentab	ility as defined in 37 CFR Secti	on 1.56 (Appendix
B, which is incor	porated by reference and a part of t	this document).	
I hereby o	claim foreign priority benefits unde	er 35 USC Section 119(a)-(d) or	
Section 365(b) o	f any foreign application(s) for pate	ent or inventor's certificate, or S	Section
365(a) of any PC	T International application which c	designated at least one country of	other
than the United S	States, listed below and have also ic	dentified below, by checking the	e box,
any foreign appli	cation for patent or inventor's certi	ficate or PCT International	
application havir	ng a filing date before that of the ap	oplication on which priority is cl	aimed.
Prior Foreign Ap	plications(s)	. 1	Priority Not Claimed
(Numbe	er) (Country)	(Date/Month/Year Filed)	 .
(Numbe	er) (Country)	(Date/Month/Year Filed)	

I hereby claim the benefit under 35 USC Section 119(e) of any United States provisional application(s) below:

(Application Serial No.)	(Filing Date)	
(Application Serial No.)	(Filing Date)	

I hereby claim the benefit under 35 USC Section 120 of any United States application(s), or Sections 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 USC Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37 CFR, or PCT International filing date of this application:

(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Patrick J. Buckley BUCKLEY, MASCHOFF & TALWALKAR LLC 5 Elm St. New Canaan, CT 06840

Direct telephone calls to: Patrick J. Buckley at (203) 972-0191.

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First Inventor's Signature	Date:
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Second Inventor's Signature	Date:
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US	
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APPENDIX A

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